

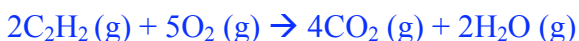
STOICH PRACTICE

1) Carbon disulfide is an important industrial solvent. It is formed by the reaction:



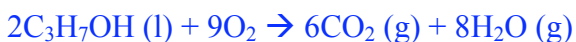
- a) How many moles of CS₂ form when 2.7 mol C reacts? Convert your answer to grams.
- b) How many moles of carbon are needed to react with 5.44 mol SO₂? Convert your answer to grams.
- c) How many moles of carbon monoxide form when 0.246 mol CS₂ forms? Convert your answer to grams.
- d) How many moles of SO₂ are required to make 118 mol CS₂? Convert your answer to grams.

2) Acetylene burns in the presence of oxygen:



- a) How many moles of acetylene are required to react with 7.3 mol O₂? Convert to grams.
- b) How many moles of CO₂ are produced when 37 mol of C₂H₂ burns? Convert your answer to grams.
- c) How many moles of H₂O are produced when 1.3 mol O₂ is used? Convert your answer to grams.
- d) How many grams of water are produced when 2 mol C₂H₂ reacts?

3) The combustion of isopropyl alcohol is:



- a) How many moles of O₂ are needed to combust 93 mole of isopropyl alcohol? Convert your answer to grams.
- b) If 135 moles of isopropyl alcohol combust, how many moles of water are formed? Convert your answer to grams.
- c) If 43 mol of isopropyl alcohol combust, how many moles of water are formed? Convert your answer to grams.
- d) If 11.2 moles carbon dioxide are produced, how many moles of isopropyl alcohol combusted? Convert your answer to grams.